BRUHAT BANGLORE MAHANAGARA PALIKE

DASARAHALLI-ZONE

T.DASARAHALLI SUB-DIVISION.

Name of Work: UGD Works and Sinking of Borewell, Laying of Pipeline in Ward No 14, Bagalagunte

Est Cost: 100.00 Lakhs

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Name of the Work:	UGD Works and Sinking of Borewell, Laying of Pipeline in Ward No 14, Bagalagunte

CERTIFICATE

We Cetified that Sri. K.P.Umesh, Asst.Engineer and Sri.Vijayakumar.T.D Asst.Exe.Engineer have Personally visited the spots and prepare the Estimate in safe and economical using the schedule rate of PWD Bangalore Circle Banglore. during the Year 2018-19

Asst.Engineer
ward No 14

Asst.Exe.Engineer
T.Dasarahalli Sub Division

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BRUHATH BANGALORE MAHANAGARA PALIKE

Dasarahalli Zone

E OF WORK:UGD Works and Sinking of Borewell, Laying of Pipeline in Ward No 14, alagunte

Job Code-014-19-000046						Est.Cost	100.00	Lakhs
Description Of Item	Unit	No	L	B	D	Qty		Amount
Geophysical survey geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the hand pumps, MWS or PWSS by vertical electrical sounding by adopting venner or schlumbergers's method including recconnaisance suevey of geological formation Geophysical investigation of existing ground Water in the vicinity. its quality , quality & acceptabality of the users indicating the location of the site recommendeddepth of casing pipe required to seal the tope unconsolidated formation including an extra depth 1.0 metre in consolidated formation for aquire proposed to be tapped propable yield and other information required including transportation of instrument and accessories to work site, engating technical personal and labour etc.,PRE- Bangalore Circle-2014-15 Page No-47 & 48 , Item No-9.4								
	Each	8				8.00	1938.46	15508.00
Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified.,PRE- Bangalore Circle-2014-15, Page No-46, Item No-9.1.1 to 9.1.7								
a							Per/Rmtr	
0.00 to 50.00 mtrs	Rmtr	1	50.00			50.00	315.18	15759.00
50mtr to 100.00 mtr		1	50.00			50.00	412.60	20630.00
100.00 to 150.00 mtr		1	50.00			50.00	458.35	22918.00
150.00 to 200.00 mtr		1	50.00			50.00	484.10	24205.00
200.00 to 250.00 mtr		1	50.00			50.00	560.32	28016.00
250.00 to 300.00 mtr		1	50.00			50.00	600.49	30025.00
300.00 to 350.00 mtr		1	50.00			50.00	640.60	32030.00
350.00 to 365 Mtr		1	15.00			15.00	677.74	10166.00
b								
0.00 to 50.00 mtrs	Rmtr	1	50.00			50.00	315.18	15759.00
50mtr to 100.00 mtr		1	50.00			50.00	412.60	20630.00
100.00 to 150.00 mtr		1	50.00			50.00	458.35	22918.00
150.00 to 200.00 mtr		1	50.00			50.00	484.10	24205.00
200.00 to 250.00 mtr		1	50.00			50.00	560.32	28016.00
250.00 to 300.00 mtr		1	50.00			50.00	600.49	30025.00
300.00 to 350.00 mtr		1	50.00			50.00	640.60	32030.00
350.00 to 358 Mtr		1	8.00			8.00	677.74	5422.00
c								
0.00 to 50.00 mtrs	Rmtr	1	50.00			50.00	315.18	15759.00
50mtr to 100.00 mtr		1	50.00			50.00	412.60	20630.00
100.00 to 150.00 mtr		1	50.00			50.00	458.35	22918.00

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to 200.00 mtr		1	50.00			50.00	484.10	24205.00
0 to 250.00 mtr		1	50.00			50.00	560.32	28016.00
00 to 300.00 mtr		1	50.00			50.00	600.49	30025.00
.00 to 350.00 mtr		1	50.00			50.00	640.60	32030.00
0.00 to 360 Mtr		1	10.00			10.00	677.74	6777.00
.00 to 50.00 mtrs	Rmtr	1	50.00			50.00	315.18	15759.00
50mtr to 100.00 mtr		1	50.00			50.00	412.60	20630.00
100.00 to 150.00 mtr		1	50.00			50.00	458.35	22918.00
150.00 to 200.00 mtr		1	50.00			50.00	484.10	24205.00
200.00 to 250.00 mtr		1	50.00			50.00	560.32	28016.00
250.00 to 300.00 mtr		1	50.00			50.00	600.49	30025.00
300.00 to 350.00 mtr		1	50.00			50.00	640.60	32030.00
350.00 to 365 Mtr		1	15.00			15.00	677.74	10166.00
0.00 to 50.00 mtrs	Rmtr	1	50.00			50.00	315.18	15759.00
50mtr to 100.00 mtr		1	50.00			50.00	412.60	20630.00
100.00 to 150.00 mtr		1	50.00			50.00	458.35	22918.00
150.00 to 200.00 mtr		1	50.00			50.00	484.10	24205.00
200.00 to 250.00 mtr		1	50.00			50.00	560.32	28016.00
250.00 to 300.00 mtr		1	50.00			50.00	600.49	30025.00
300.00 to 350.00 mtr		1	50.00			50.00	640.60	32030.00
350.00 to 360 Mtr		1	10.00			10.00	677.74	6777.00
0.00 to 50.00 mtrs	Rmtr	1	50.00			50.00	315.18	15759.00
50mtr to 100.00 mtr		1	50.00			50.00	412.60	20630.00
100.00 to 150.00 mtr		1	50.00			50.00	458.35	22918.00
150.00 to 200.00 mtr		1	50.00			50.00	484.10	24205.00
200.00 to 250.00 mtr		1	50.00			50.00	560.32	28016.00
250.00 to 300.00 mtr		1	50.00			50.00	600.49	30025.00
300.00 to 350.00 mtr		1	50.00			50.00	640.60	32030.00
350.00 to 360 Mtr		1	10.00			10.00	677.74	6777.00
0.00 to 50.00 mtrs	Rmtr	1	50.00			50.00	315.18	15759.00
50mtr to 100.00 mtr		1	50.00			50.00	412.60	20630.00
100.00 to 150.00 mtr		1	50.00			50.00	458.35	22918.00
150.00 to 200.00 mtr		1	50.00			50.00	484.10	24205.00
200.00 to 250.00 mtr		1	50.00			50.00	560.32	28016.00
250.00 to 300.00 mtr		1	50.00			50.00	600.49	30025.00
300.00 to 350.00 mtr		1	50.00			50.00	640.60	32030.00
350.00 to 360 Mtr		1	10.00			10.00	677.74	6777.00
h								
0.00 to 50.00 mtrs	Rmtr	1	50.00			50.00	315.18	15759.00
50mtr to 100.00 mtr		1	50.00			50.00	412.60	20630.00
100.00 to 150.00 mtr		1	50.00			50.00	458.35	22918.00
150.00 to 200.00 mtr		1	50.00			50.00	484.10	24205.00
200.00 to 250.00 mtr		1	50.00			50.00	560.32	28016.00
250.00 to 300.00 mtr		1	50.00			50.00	600.49	30025.00

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	0 to 350.00 mtr		1	50.00			50.00	640.60	32030.00
	50 to 360 Mtr		1	10.00			10.00	677.74	6777.00
	pply of ISI Mark 175mm Nominal bore ,plain end steel Casing pipe de of steel Fee 410 of wall thickness 5.4 mm thick confirming to IS 37/1933 and manufactured by basic open hearth electric or basic xygen process in random lenth of 5 to 7mtrs. Both ends threaded Confirming to IS 554/1985, One end fixed with a Socket Confirming to IS 1270:2001 and the other end with Screwed pipes . All pipes shall be reasonably free from defectes. The tube shall be reasonably straight should be with ISI marking, weighing 25.10kg/mtr. (Inclusive of all								
		Mtr	1	84			84.00	1325.00	111300.00
			1	72			72.00	1325.00	95400.00
			1	84			84.00	1325.00	111300.00
			1	84			84.00	1325.00	111300.00
			1	84			84.00	1325.00	111300.00
			1	72			72.00	1325.00	95400.00
			1	84			84.00	1325.00	111300.00
			1	90			90.00	1325.00	119250.00
4	Providing and Fixing 250mm dia PVC pipe and as per Specification and Direction (BWSSB SR 13-14, P.No.53, IT.No01 of Sl No.11								
		Each	8	18			144.00	1133.00	163152.00
5	Providing 175 mm dia MS Collar (RDED SR page ii, item86)								
		Each	2	5			10.00		
			6	8			48.00		
							58.00	150.00	8700.00
6	Providing 175 mm dia MS Cap(as per RDED SR page ii, item-85)								
		Each	8	1			8.00	100.00	800.00
7	Supply and delivery at site brand new submersible pumpset suitable for borewell of 165mm dia and having the declared duty conditions as detailed below and satisfying performance Characteristics for pump and motor as declared by the bureau of indian stand. the pumpset should conform to IS : 8034-1989 (With all its latest amendments) and Should bear ISI Certification mark IS : 8034-1989 Sub mercible pumpset 20HP 40 stage Texmo/Taro or equalents Brands (KPWD SR 2018-19 Page No: XLII Item No 56)								
		No	12	1			12.00	85197.50	1022370.00
	Basic Rate	80375.00							
	Area Weightage 6%	4822.50							
	Total	85197.50							
8	Providing and fixing of 50mm G.I pipe 'C' class heavy duty for erection of submersible pumpset galvanised tube 50mm supply ad delivary of cause heavy duty as per IS/239/1990 (P No.XLVII, SL.No 01) PWD SR 2018-19								
		Mtrs	1	300			300.00	439.90	131970.00
			1	300			300.00	439.90	131970.00
			1	300			300.00	439.90	131970.00
			1	300			300.00	439.90	131970.00
			1	275			275.00	439.90	120973.00
			1	310			310.00	439.90	136369.00
			1	300			300.00	439.90	131970.00
			1	275			275.00	439.90	120973.00
	Basic Rate	415.00							
	Area Weightage 6%	24.90							
	Total	439.90							

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	ving and Drawing 3 core Flat PVC Shalted Submersible Pump Manufactured with Electrolytic Grade Copper with Flexible er conductor to table 3 class 5 of IS 8130-1984 and Virgen PVC lation and Sheeated Suitable for working Voltage Upto 1100 Volts SSB SR 2014-15, P- 535, I. 30Page no:12 sl no: 2.10.4								
		Mtrs	4	600.00			2400.00		
			4	550.00			2200.00		
							4600.00	164.29	755734.00
	Supplying and delivery at site brand new star / Essen / Lotus / Sun shines / Adharsh / GK Controls best indigenous make combined energy meter cum control panel board unit of size 1200x600x350mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for opration on 3ph, 50 hz, 380/440 volts, AC supply with spring loaded latch, locking device with a key ribs should be provided inside the door canopy apron and louvers ventilators shall be provided the combined energy meter cum control panel board unit suitable for operation on 3ph, 50 hz, 380/440 volts AC supply shall be consists etc., complete the panel board shall be consist etc., complete the panel board shall be fabricated on single unit in the above componenets panel board for suitable pumpset with star delta staretr out door type								
		Nos	8	1			8.00	14800.00	118400.00
	Fabricating Supplying and mounting MS Box of 16 SWG suitable for floor/ wall mounting fully weather proof with provision for better hear description, 9Providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamp with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 Sq cm (P.No.530, I.No.39, BWSSB SR 2013-14)								
		Sqm	8	1100.00	20.00		176000.00	0.35	61564.80
	Basic Rate	0.33							
	Area Weightage 6%	0.02							
	Total	0.35							
12	Providing & Fixing of Clamps set and Borewell cap to the pump 9MR)								
		No's	8				8.00	1908.00	15264.00
	Basic Rate	1800.00							
	Area Weightage 6%	108.00							
	Total	1908.00							
13	Supplying and fixing 50mm Non Return Vavle of vertical type of approved make including cost of all materials labour HOM of equipment with all leads Complete as per Specifcation PWD SR 2018-19, P.No-XLVII, Sl No.16								
		No	8	1			8.00	1908.00	15264.00
	Basic Rate	1800.00							
	Area Weightage 6%	108.00							
	Total	1908.00							
14	Supplying and fixing 50mm GM Gate Vavle PWD SR 2018-19, P.No-XLVII, Sl No.15								
		Nos	8	1			8.00	1908.00	15264.00
	Basic Rate	1800.00							
	Area Weightage 6%	108.00							
	Total	1908.00							
15	Providing & Fixing of 50mm GI Short bend to motor (PWD SR 2018-19, P.No.XXXIX, GI Pipe Fittings, ISI Standard Table								
		No	8	1			8.00	232.14	1857.00
	Basic Rate	219.00							
	Area Weightage 6%	13.14							
	Total	232.14							

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	ing and fixing 50mm GI Union PWD SR 2015-16, P.No.XXXVII,								
		Nos	8	1			8.00	237.12	1897.00
	Basic Rate	223.70							
	Area Weightage 6%	13.42							
	Total	237.12							
	pplying and fixing 50mm GI Elbow PWD SR 2015-16, P-XXXVII								
		Nos	8	1			8.00	111.80	894.00
	abour charges for laying 1.1 KV class UG cable when supplied by encies in existing trenches GI pipe / stoneware pipe/ on pole as quired, P-427, I-11 (a), BWSSB SR 2012-13.								
		each	8	20			160.00	90.64	14502.00
	Basic Rate	88.00							
	Area Weightage 3%	2.64							
	Total	90.64							
	Erection of combined panel board and meter unit with necessary materials and labour including providing cement concrete foundation hed cont door type etc., complete PRED ISSUE RATE								
		No	8	1			8.00	475.00	3800.00
	Supplying and fixing miniature Circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring complete as required P-526, I-13 (P, a), BWSSB SR 2013-14.								
		No;s	8	1			8.00	906.40	7251.20
	Basic Rate	880.00							
	Area Weightage 3%	26.40							
	Total	906.40							
	Supplying and laying of L.T.U.G Cable having aluminium conductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 K V class 4 crore 16 sqmm cable 9Confirming to IS 1554) P.No.553, IT.No 10(d) BWSSB SR 2013-14								
		Mtr	8	10.00			80.00	169.95	13596.00
	Basic Rate	165.00							
	Area Weightage 3%	4.95							
	Total	169.95							
22	Digging of trench of 0.6m deep x 0.5m wide refilling the trench to the required level and consolidating etc., complete P-554, I-12 (b), BWSSB SR2013-14.								
		Mtrs	8	20			160.00	56.65	9064.00
	Basic Rate	55.00							
	Area Weightage 3%	1.65							
	Total	56.65							
23	Supplying and fixing class A GI pipe on pole/Wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm 9P.No.555, IT No.15 (b) BWSSB SR 2013-14.								
		Mtrs	8	3			24.00	249.26	5982.00
	Basic Rate	242.00							
	Area Weightage 3%	7.26							
	Total	249.26							
24	Supplying, fixing, wiring earth electrode for grounding conduits, LC cutouts and other equipments on the meter board using 40mm dia 2.90mm thick GI pipe 2.50m long buried in a pit. The pit should be filled with equal proportion of solt and charcoal 150mm alround the pipe to complete depth. the connection from the pipe to the conduct etc., is to be established through GI wire of size as per ISI specifications 7.3.3 IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 throught holes of 122mm dia P-552, I-7, BWSSB SR 2013-14.								
		No's	8	3			24.00	1699.50	40788.00

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Basic Rate	1650.00							
Area Weightage 3%	49.50							
Total	1699.50							
and fixing LT cast iron pot heads suitable for 1.1 KV class 16 UG cable filled with neccesary bitumen / insulating compound ete with termiinalas, clamps, bolts, nuts, washers etc., P-555, I No- BWSSB SR 2013-14								
	No's	8				8.00	271.92	2175.00
Basic Rate	264.00							
Area Weightage 3%	7.92							
Total	271.92							
oplying Shunt capacitor's comfirming to IS 2834, 3phase 400/440 s grade for power factor improvement of roating machinery capacitor KVAR rating No;s (MR)								
	No's	8				8.00	1350.00	10800.00
oviding 7 Fixing Gun Metal Gate wheel valve confirming to IS ecifivation of approved make as per direction including all lead and etc., complete 50mm dia 9P.No.94, It.No.13.796, PWD SR 18-19								
	No's	8	4			32.00	778.04	24897.00
Basic Rate	734.00							
Area Weightage 6%	44.04							
Total	778.04							
upplying and fixing of polished wood board made up not less than 5mm thick plank in both side with plank made out on not more than 2 ecess and fixing the same to wall using tapered inverted wooden plugs crews etc., Size 20x20x2.5 inches (P.No.521, I.No.2(f), BWSSB SR 2013-14								
	No's	8				8.00	311.58	2493.00
Basic Rate	302.50							
Area Weightage 3%	9.08							
Total	311.58							
Earthwork excavation for foundation of buildings water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. Noll KBS 2.1.C/2.9.4/2.18/2.19 (Pg. No-06, I.No-2.4)PWD - SR 2018-19)								
	Cum	8	371.00	0.60	0.75	1335.60		
						1335.60	475.94	635665.00
Basic Rate	449.00							
Add Area Weightage 6%	26.94							
Total	475.94							
30 KSRB 13.9: Providing and fixing to wall, ceiling and floor high density polyethylene pipes 6.00 kgf/sq.cm working pressure of outside diameter raising mains & exposed distribution pipes with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM and testing complete as per specifications. 63MM dia Specification No KBS 13.2.15.2 (Page no:96, I.No.13.73.2 PWD SR 2018-19).								
	Rmt	8	371.00			2968.00		
						2968.00	394.32	1170342.00
Basic Rate	372.00							
Add Area Weightage 6%	22.32							
Total	394.32							

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	3-2-4: Refilling available earth around pipe lines, cables in layers exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m including cost of all labour complete as specifications.. allow 60% of rate considered under item KSRB 2.3 Page No. 7/ Item No. 2.11/PWD - SR 2018-19)								
		Cum	8	371.00	0.60	0.75	1335.60	128.26	171304.00
	Basic Rate	121.00							
	Add Area Weightage 6%	7.26							
	Total	128.26							
	PTCL Deposit Charge								
		Each	8				8.00	12000.00	96000.00
	Borewell registration charge per Rs 1000 each for BWSSB								
		Each	8				8.00	1000.00	8000.00
	KSRB-2-2.2: Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5 m and above in width, in hard soil not exceeding 1.5m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead up to 50 m. after breaking of clods complete as per specifications. Specification No. KBS 2.1(b) 2.3.5 Page No. 6/ Item No. 2.4/ PWD - SR 2018-19)								
		Cum	1	512.00	0.90	2.00	921.60		
			25	(3.142X1.20X1.20)/4		2.00	56.56		
	Basic Rate	449.00					978.16	475.94	465544.00
	Add Area Weightage 6%	26.94							
	Total	475.94							
	KSRB 12-1.1 : Providing and laying in position to required level or slope 300mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints, including cost of materials, labour charges complete as per specifications. Specification No. KBS 12.2.5/12.7 Page No. 72/ Item No. 11.6/ PWD - SR 2018-19)								
		Mtr	1	512.00			512.00		
	Basic Rate	631.00					512.00	668.86	342456.00
	Add Area Weightage 6%	37.86							
	Total	668.86							
36	KSRB-2-4: Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m including cost of all labour complete as specifications.. allow 60% of rate considered under item KSRB 2.3 Page No. 7/ Item No. 2.11/PWD - SR 2018-19)								
		Cum	Qty Vide Item No 34				978.16	128.26	125458.00
	Basic Rate	121.00							
	Add Area Weightage 6%	7.26							
	Total	128.26							
37	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 4 Km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading Page No. 136 Item No. 17.1 PWD - SR 2018-19)								
		Cum	Qty Vide Item No.34				1000.00		
			Deduct of 40%				400.00		
							600.00	73.99	44393.00

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	Loading and Unloading Charges	57.00							
	Lead 4 KMs 2x1.28x4	12.80							
		69.80							
	Add Area Weightage 6%	4.19							
	Total	73.99							
								Sub Total	8619904.00
42	Tender Premium Charge 3%								258597.00
43	PMC Charge 1%								86199.00
44	GST Charge 12%								1034388.00
45	Miscellaneous and UnforessenCharges								912.00
								Grand Total	10000000.00
	(Rupees One Hundred Lakhs Only)								

Assistant Engineer
Ward 14

Asst. Exe. Engineer
T.Dasarahalli Sub-Division

Exeutive Engineer
Dasarahalli Division

ನಂ.EE/DD/AS/162/ದಿನಾಂಕ: 16/02/2019
ರೂ. One Hundred Lakhs only (100.00 ಲಕ್ಷ)
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂ.CE/D2/TS/166/18-19 ದಿನಾಂಕ: 19/02/2019
ರೂ. 100.00 lakhs/- (Rs Hundred lakhs only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಮುಖ್ಯ ಅಭಿ...
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

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